

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for recovering a dropped table, comprising:
specifying one or more table spaces prior to one or more tables being dropped from the specified one or more table spaces, wherein specifying one or more table spaces comprises setting a dropped table recovery flag for each of the one or more table spaces in response to a request;
~~when a table is to be dropped~~ in response to receiving a request to drop a table from one of the one or more specified table spaces,
storing a unique table identifier, a time stamp reflecting the time of drop, and table definition attributes for the ~~dropped~~ table in a dropped table history data structure; and
dropping the table; ~~[[and]]~~
~~upon~~ in response to receiving a request to restore ~~[[a]] the table space from the one or more specified table spaces~~ that includes the dropped table, recovering ~~each of the one or more tables in~~ the table space being restored using the dropped table history data structure, wherein the restored table space pre-dates the table space from which the table was dropped; and
in response to receiving a rollforward command,
rolling forward the table space containing the dropped table to a time reflected in the time stamp reflecting the time of the drop by replaying a set of stored transactions up to the time reflected in the time stamp; and
copying data from the dropped table in the rolled forward selected table space to a storage data structure at a file location specified by a user.

2. (Currently Amended) The method of claim 1, wherein the table to be dropped from the one or more specified table spaces is a first table and further comprising:
when a second table is to be dropped from a table space other than the one or more specified table spaces, dropping the second table without modifying the dropped table history data structure.

3. (Cancelled)
4. (Currently Amended) The method of claim [[3]] 1, wherein the dropped table recovery flag ~~may be~~ is capable of being changed.
5. (Currently Amended) The method of claim 1, after restoring the table space, further comprising:
 - ~~rolling forward the table space containing the dropped table to a time reflected in the time stamp by replaying a set of stored transactions up to the time reflected in the time stamp, wherein information about the dropped table is stored in the data structure;~~
 - ~~copying data from the dropped table in the rolled forward selected table space to a storage data structure;~~
 - accessing the table definition attributes for the dropped table, in the dropped table history data structure, to create a new table in the table space; and
 - loading the data in the storage data structure into the new table.
6. (Original) The method of claim 5, wherein the storage data structure is a flat file.
7. (Currently Amended) The method of claim 1, wherein during the recovery of one or more tables in the table space to be restored, ~~parts of the database,~~ excluding the table space to be restored, ~~are~~ is accessible to users.
8. (Cancelled)
9. (Currently Amended) A system for recovering a dropped table, comprising:
 - means for specifying one or more table spaces prior to any tables being dropped from the specified one or more table spaces, wherein specifying one or more table spaces comprises setting a dropped table recovery flag for each of the one or more table spaces in response to a request;
 - ~~when a table is to be dropped in response to receiving a request to drop a table from one~~ of the one or more specified table spaces,

means for storing a unique table identifier, a time stamp reflecting the time of drop, and table definition attributes for the ~~dropped~~ table in a dropped table history data structure; and

means for dropping the table; [[and]]

means for, ~~upon~~ in response to receiving a request to restore [[a]] the table space ~~from the one or more specified table spaces~~ that includes the dropped table, recovering ~~each of the one or more tables in the table space being restored using the dropped table history data structure~~, wherein the restored table space pre-dates the table space from which the table was dropped; and

in response to receiving a rollforward command,

means for rolling forward the table space containing the dropped table to a time reflected in the time stamp reflecting the time of the drop by replaying a set of stored transactions up to the time reflected in the time stamp; and

means for copying data from the dropped table in the rolled forward selected table space to a storage data structure at a file location specified by a user.

10. (Currently Amended) The system of claim 9, wherein the table to be dropped from the one or more specified table spaces is a first table and further comprising:

when a second table is to be dropped from a table space other than the one or more specified table spaces, means for dropping the second table without modifying the dropped table history data structure.

11. (Cancelled)

12. (Currently Amended) The system of claim [[11]] 9, wherein the dropped table recovery flag ~~may be~~ is capable of being changed.

13. (Currently Amended) The system of claim 9, after restoring the table space, further comprising:

~~means for rolling forward the table space containing the dropped table to a time reflected in the time stamp by replaying a set of stored transactions up to the time reflected in the time~~

~~stamp, wherein information about the dropped table is stored in the dropped table history data structure;~~

~~_____ means for copying data from the dropped table in the rolled forward selected table space to a storage data structure;~~

means for accessing the table definition attributes for the dropped table, in the dropped table history data structure, to create a new table in the table space; and

means for loading the data in the storage data structure into the new table.

14. (Original) The system of claim 13, wherein the storage data structure is a flat file.

15. (Currently Amended) The system of claim 9, wherein during the recovery of one or more tables in the table space to be restored, ~~parts of the database,~~ excluding the table space to be restored, ~~are~~ is accessible to users.

16. (Cancelled)

17. (Currently Amended) A ~~program for recovering a dropped table, wherein the program is implemented in a computer readable medium and is capable of causing operations to be performed, the operations~~ computer program product comprising a computer usable medium having computer readable code stored in said computer readable medium, said computer program product comprising:

specifying one or more table spaces prior to any tables being dropped from the specified one or more table spaces, wherein specifying one or more table spaces comprises setting a dropped table recovery flag for each of the one or more table spaces in response to a request;

~~when a table is to be dropped~~ in response to receiving a request to drop a table from one of the one or more specified table spaces,

storing a unique table identifier, a time stamp reflecting the time of drop, and table definition attributes for the ~~dropped~~ table in a dropped table history data structure; and

dropping the table; [[and]]

~~upon~~ in response to receiving a request to restore [[a]] the table space ~~from the one or more specified table spaces~~ that includes the dropped table, recovering each of the one or more

~~tables in~~ the table space being restored using the dropped table history data structure, wherein the restored table space pre-dates the table space from which the table was dropped; and

in response to receiving a rollforward command,

rolling forward the table space containing the dropped table to a time reflected in the time stamp reflecting the time of the drop by replaying a set of stored transactions up to the time reflected in the time stamp; and

copying data from the dropped table in the rolled forward selected table space to a storage data structure at a file location specified by a user.

18. (Currently Amended) The program of claim 17, wherein the table to be dropped from the one or more specified table spaces is a first table and wherein the operations further comprise:

when a second table is to be dropped from a table space other than the one or more specified table spaces, dropping the second table without modifying the dropped table history data structure.

19. (Cancelled)

20. (Currently Amended) The program of claim 17, wherein the dropped table recovery flag ~~may be~~ is capable of being changed.

21. (Currently Amended) The program of claim 17, wherein after restoring the table space, the operations further comprise:

~~rolling forward the table space containing the dropped table to a time reflected in the time stamp by replaying a set of stored transactions up to the time reflected in the time stamp, wherein information about the dropped table is stored in the dropped table history data structure;~~

~~— copying data from the dropped table in the rolled forward selected table space to a storage data structure;~~

accessing the table definition attributes for the dropped table, in the dropped table history data structure, to create a new table in the table space; and

loading the data in the storage data structure into the new table.

22. (Original) The program of claim 21, wherein the storage data structure is a flat file.

23. (Currently Amended) The program of claim 17, wherein during the recovery of one or more tables in the table space to be restored, ~~parts of the database,~~ excluding the table space to be restored, ~~are~~ is accessible to users.

24. (Cancelled)